Amendment to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Original) A compound of the general formula (I)

$$\begin{array}{c}
(L^{1})_{2} \\
R^{1} \\
N \\
R \\
\end{array}$$

$$\begin{array}{c}
(L^{1})_{2} \\
N \\
R
\end{array}$$

$$\begin{array}{c}
(L) \\
R \\
\end{array}$$

$$\begin{array}{c}
(L) \\
R \\
\end{array}$$

wherein

Nu¹ denotes -O, -S, -Se, -PR^a, NR^a or -COO groups,

Ra denotes hydrogen, alkyl or aryl radicals and

R, R¹, R² and R⁴ are identical or different radicals that are selected independently of one another from the group consisting of H, halogens, substituted or unsubstituted C₁-C₈-alkyl, C₂-C₈-alkenyl, C₃-C₁₂-cycloalkyl, C₇-C₁₃-aralkyl and C₆-C₁₄-aryl groups, and R¹ with R², R³ or R⁴, and R² with R³ or R⁴ may form a ring,

M¹ denotes an element of the 4th to 12th subgroup of the Periodic System,

L¹ is a neutral ligand and

L² is an anionic ligand, wherein L¹ and L² may be coupled together by one or more covalent bonds, and

z is a whole number from 1 to 3.

2. (Original) The compound according to Claim 1, wherein

Nu¹ is O.

- R is selected from the group consisting of substituted an unsubstituted C_6 - C_{14} -aralkyl groups,
- R^1 , R^2 , R^3 and R^4 are identical or different radicals and are selected independently of one another from the group consisting of H, substituted or unsubstituted C_1 - C_8 -alkyl groups, C_2 - C_8 -alkenyl groups, C_3 - C_{12} -cycloalkyl groups, C_7 - C_{13} -aralkyl groups and C_6 - C_{14} -aryl groups,
- M¹ is selected from the group consisting of Ti, Zr, Hf, Cr, V, Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt, Cu, Ag, Au, Zn, Cd and Hg
- L¹ is an organic or inorganic neutral ligand selected from the group consisting of phosphanes of the general formula $(R^{13})_xPH_{3-x}$, amines of the general formula $(R^{13})_xNH_{3-x}$, ethers of the general formula $(R^{13})_2O$, alcohols of the general formula $(R^{13})OH$, pyridine derivatives of the general formula $C_5H_{5-x}(R^{13})_xN$, CO, C₁-C₁₂-alkyl nitrile, C₆-C₁₄-aryl nitrile, and singly or multiply ethylenically unsaturated double bond systems, wherein
- R^{13} is selected from the group consisting of H, C_1 - C_8 -alkyl groups, benzyl radicals and C_8 - C_{14} -aryl groups and
 - x is a whole number from 0 to 3 and
- L^2 is an anionic ligand selected from the group consisting of halide ions, amide anions of the formula $R^{14}R^{15}N$, C_1 - C_6 -alkyl anions, allyl anions, methallyl anions, benzyl anions and aryl anions, wherein

R¹⁴ and R¹⁵ independently of one another are selected from the group consisting of H, C₁-C₈-alkyl groups, benzyl radicals and C₆-C₁₄-aryl groups, and R¹⁴ may also be covalently coupled to R¹⁵, and

- z may be a whole number from 1 to 3.
- 3. (Original) A compound according to Claim 1, wherein

Nu¹ is O.

- R is mesityl, 2,4,6-trimethylphenyl or 2,6-diisopropylphenyl,
- R¹, R², R³ and R⁴ are identical or different radicals and independently of one another are selected from the group consisting of H, C₁-C₈-alkyl groups and C₆-C₁₄-aryl groups,
- M¹ is selected from the group consisting of Ti, Zr, Cr, V, Fe, Co, Ni, Pd, Cu and Zn
- L¹ is a neutral ligand selected from the group consisting of triphenylphosphine, triethylphosphine, trimethyl-phosphine, dibenzophosphol, triphenyl phosphite, triethyl phosphite, trimethyl phosphite, trimethyl phosphite, trimethyl-amine, dimethylaniline, dimethylaniline, diethylaniline, benzyl-dimethylamine, benzyl-diethylamine, diisopropylamine, diethylamine, dimethylamine, diphenylamine, phenylenediamines, diethyl ether, tetrahydrofuran, water, methanol, ethanol, pyridine, 2-picoline, 3-picoline, 4-picoline, 2,3-lutidine, 2,4-lutidine, 2,5-lutidine, 2,6-lutidine, 3,5-lutidine, CO, acrylonitrile, acetonitrile, propionitrile, butyronitrile, benzonitrile, ethenyl, propenyl, cis-2-butenyl, trans-2-butenyl, cyclohexenyl and norbornenyl,

- L^2 is an anionic ligand selected from the group consisting of chloride, bromide, dimethylamide, diethylamide, amide, 2-carboxylic acid methallyl ester, allyl, methyl, ethyl, n-propyl, i-propyl, n-butyl, tert.-butyl, hexyl and phenyl
- z may be a whole number from 1 to 3.

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4. (Original) A compound according to Claim 1, wherein

> Nu¹ is O.

R is mesityl or 2,6-diisopropylphenyl,

 R^1 is tert.-butyl or phenyl,

 \mathbb{R}^2 is H,

 \mathbb{R}^3 is tert.-butyl,

R⁴ is H.

 M^1 is Ni or Pd,

- L1 is triphenylphosphane or pyridine,
- L^2 is phenyl or methyl and
- Z is a whole number from 1 to 3.
- 5. (Original) A process for the production of the compounds according to Claim 1 comprising reactinga ligand of the general formula (II)

where

J is selected from the group consisting of H and an element of the 1st or 2nd main group of the Periodic System and wherein

 Nu^1 , R, R¹, R², R³, R⁴ have the same meanings as in Claim 1,

with 0.2 to 5 equivalents of a metal compound of the general formulae

 $M^{1}X_{4}$, $M^{1}X_{3}$, $M^{1}L^{1}L^{2}$, or $M^{1}X_{2}$,

in which

M1, L1 and L2 have the same meanings as in Claim 1 and

- X is selected from the group consisting of halogen, C₁-C₈-alkyl, C₃-C₁₂-cycloalkyl, C₇-C₁₃-aralkyl and C₈-C₁₄-aryl groups and in which M¹X₄, M¹X₃ or M¹X₂ may be stabilized by further neutral ligands.
- 6. (Original) A process for the production of the compounds according to Claim 5, further comprising purifying and isolating the compound by crystallization.
- (Original) Process for the production of the compounds according to Claim 5, wherein the preparation is carried out in situ.
- 8. (Original) Process for the production of the compounds according to Claim 7, wherein the ligand and the metal compound are reacted *in situ* in the presence of one or more olefinic monomers.
- (Original) Process for the production of compounds according to Claim 1, wherein the process is carried out in aprotic polar solvents.

- 10. (Original) Process for the production of olefin (co)polymers, comprising reacting compounds according to Claim 1 in the presence of olefinic monomers selected from the group consisting of 1-olefins, cycloolefins, functionalized 1-olefins and mixtures thereof.
- 11. (Original) Process according to Claim 10, further comprising adding boron compounds or aluminum compounds as co-catalysts to the reaction mixture.
- 12. (Original) Process according to Claim 11, wherein the molar ratio of cocatalyst to metal M¹ in the compound according to formula (I) is in the range from 1:10 to 1:10,000.
- 13. (Original) Process according to Claim 11, wherein aluminoxanes are used as co-catalysts.
- 14. (Original) Process according to Claim 10, wherein the reaction is carried out in polar solvents or solvent mixtures.
- 15. (Original) Reaction products prepared by reacting the compounds according to Claim 1 with a co-catalyst(s).
- 16. (Original) Olefin (co)polymer prepared according to the process of Claim 10.
- 17. (Original) Molded parts prepared by processing the reaction products according to Claim 15.